

Sumitomo PP AV161

Polypropylene Impact Copolymer

Sumitomo Chemical Asia

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Applications: For general purpose applications such as housewares, furnitures, battery cases, crates, containers, chairs, toys, and detergent pails, etc.

Characteristics: Medium flow, high impact, high stiffness, and high heat stability.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Asia Pacific • Europe
Features	• Block Copolymer • Good Thermal Stability • High Impact Resistance • High Stiffness • Medium Flow • Recyclable Material
Uses	• Battery Cases • Containers • Crates • Furniture • General Purpose • Household Goods • Pails • Toys
Agency Ratings	• FDA 21 CFR 177.1520
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.902	0.900 g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Across Flow	1.4 %	1.4 %	
Flow	1.4 %	1.4 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	3630 psi	25.0 MPa	
Break	1890 psi	13.0 MPa	
Flexural Modulus	170000 psi	1170 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength			ASTM D256
-4°F (-20°C)	1.9 ft·lb/in ²	4.0 kJ/m ²	
73°F (23°C)	4.8 ft·lb/in ²	10 kJ/m ²	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness	90	90	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	223 °F	106 °C	
Vicat Softening Temperature	309 °F	154 °C	ASTM D1525 ³

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	374 to 446 °F	190 to 230 °C
Mold Temperature	68 to 158 °F	20 to 70 °C



Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.
- ³ Loading 1 (10 N)

